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# IDS U3-3041LE-C-HQ-AF, USB 3.0, 1/2.9" Color Camera

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IDS Imaging uEye LE USB 3.1 AF Autofocus Liquid Lens Board Level Cameras (M12 S-Mount)



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Color **Spectrum:**

#### General

Color Camera **Type:**

U3-3041LE-C-HQ-AF **Model Number:**

**Manufacturer:**  
IDS Imaging Development Systems

**Camera Series:**  
uEye+ LE-AF

## Physical & Mechanical Properties

**Dimensions (mm):**  
36 x 36 x 19.9 (excludes connectors and lens mount)

**Weight (g):**  
16

**Housing:**  
Board Level

## Sensor

**Image Buffer:**  
Not Specified

**Sensor Format:**  
1/2.9"

**Resolution (Megapixels):**  
1.50

**Frame Rate (fps):**  
230.00

**Pixels (H x V):**  
1,448 x 1,086

**Pixel Size, H x V (µm):**  
3.45 x 3.45

**Sensing Area, H x V (mm):**  
4.995 x 3.746

**Imaging Sensor:**  
Sony IMX273

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
12 bit

**Exposure Time:**  
0.04ms - 2000ms

**Dynamic Range (dB):**  
70.00

**Machine Vision Standard:**  
USB3 Vision

## Electrical

**Power Consumption (W):**  
1 - 2

## Hardware & Interface Connectivity

**Interface:**  
USB 3.0

**Connector:**  
USB Type-C

**Power Supply:**  
Power over USB

**GPIOs:**  
2 Flash Output, 2 Trigger Input, 2 GPIO, 2 TWI, 1 Voltage Output, 1 Ground

**Synchronization:**  
Hardware Trigger (GPIO); Software Trigger

**Interface Port Orientation:**  
Back Panel (Right Angle)

**GPIO Connector Type:**  
10-pin Wuerth connector (WR-WTB 1.00 mm)

## Threading & Mounting

**Mount:**  
S-Mount (M12 x 0.5)

**Mounting Threads:**  
No Mounting Threads/Tripod Adapter

## Environmental & Durability Factors

**Operating Temperature (°C):**  
0 to +55

**Storage Temperature (°C):**  
-20 to +80

## Regulatory Compliance

[Exempt](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Contains SVHC\(s\)](#) **REACH 241:**

## Product Details

- Compact M12 (S-Mount) and C/CS-Mount Board Level Cameras
- Integrated Liquid Lens Control
- Software Based Autofocus Functionality

IDS Imaging uEye LE USB 3.1 AF Autofocus Liquid Lens Board Level Cameras provide integrated liquid lens control allowing users to quickly switch between different focus distances. These board level cameras have a compact size with either an M12 (S-Mount) or C/CS-Mount camera mount. The M12 (S-Mount) cameras are compatible with our [Liquid Lens M12 Imaging Lenses](#), while the C/CS-Mount cameras are compatible with our [Liquid Lens Cx Series Fixed Focal Length Lenses](#). All models are equipped with a 10-pin, lockable I/O Molex connector for GPIO, trigger, and flash. The USB 3.1 Type-C connector enables USB power delivery. The liquid lens is conveniently focused via the camera using software. The autofocus can be triggered very easily by software, can be individually configured to suit the application and ensures perfectly sharp images in an instant.

**Note:** Board level cameras with exposed electronics are intended for system integration and may not be suitable for end users. Liquid lens sold separately. Choose your camera and the appropriate liquid lens listed under the [Accessories](#) section.